

17(3)

AUTHORS:

Emanuel', N. M., Corresponding

SOV/20-125-2-49/64

Member, AS USSR, Lipchina, L. P., Pelevina, I. I.

TITLE:

Selective Decrease of the RNA Content in Tumor Cells and Their Loss of the Ability to be Grafted when Acted upon by Chain-reaction Inhibitors in Vitro (Izbitatel'noye umen'sheniye soderzhaniya RNK v opukholevykh kletkakh i poterya imi sposobnosti privivat'sya pri vozdeystvii in vitro inhibitorov tsepnykh reaktsiy)

PERIODICAL:

Doklady Akademii nauk SSSR, 1959, Vol 125, Nr 2, pp 411-413 (USSR)

ABSTRACT:

The authors found a principal possibility of the inhibition and retrogression in the formation of tumors by use of the aforesaid inhibitors (Ref 1). The activity of important redox ferments in tumor cells is suppressed by propyl gallate in vitro (Ref 2). Thus these cells are deprived of the energy they need for intense biosynthetic processes which are typical of blastoma growth. Among these processes the biosynthesis of ribonucleic acid (RNA) is of special interest, which, according to modern views, forms a matrix for albumin synthesis (Ref 3). There is a certain connection between the

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intensities of albumin synthesis and the re-formation of RNA. Also rapidly growing cells of tumor are known to possess a high RNA content (Refs 4-6). There are also some indications (Ref 7) that the decrease of RNA content below a certain value stops albumin synthesis. In the present paper it was found that a considerable selective decrease of the RNA content in tumor cells is caused by propyl gallate (as compared to a regular cell) so that these cells lose the capability of being implanted. Ehrlich- (Erlikh-) cancer of mice, carefully minced tissues of leucosis mice, Brown-Pierce- (Braun-Pirs-) tumor of rabbits, acridine sarcoma of mice, sarcoma 45 of rats and Rous-sarcome of hens were used for the experiments. Already after an action of 0.75 % propyl gallate solutions for 15-30 min neither plasm RNA nor nuclear RNA is visible under the luminescence microscope (Fig 1 a,b). The change of the RNA content are reversible and can be eliminated to a certain extent (Fig 1, v). Experiments with sound liver cells have shown that the inhibitor (0.15 %) insignificantly reduces the RNA content within a short time;

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on the other hand, a complete adaptation of the cells follows and the regular state is restored (Fig 2 a,b). Thus it was possible to draw the important conclusion on the selective effect of propyl gallate on tumor cells, which explains the therapeutical effect of the inhibitor in vivo without damage of the organism as a whole. The cells of the enumerated tumors are therein completely deprived of the capability of implantation. If they are washed out with physiological common salt solution, this lost capability is restored. There are 2 figures and 8 Soviet references.

SUBMITTED: November 25, 1958

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PELEVINA, I. I.

"The Action of Inhibitors of Free Radicals on Oxidative-Reducing Enzymes
that Operate on a Free Radical Mechanism."

report submitted for the First Conference on the problems of Cyto and
Histochemistry, Moscow, 19-21 Dec 1960.

Institute of Chemical Physics, Academy of Sciences USSR, Moscow.

PELEVINA, I. I., and LIPCHINA, L. P. (USSR)

"Suppression of the Activity of Enzymes of the Succinoxidase System
by Inhibitors of Free-Radical Processes."

Report presented at the 5th International Biochemistry Congress,
Moscow, 10-16 Aug 1961

PELEVINA, I.I.; LIPCHINA, L.P.

Effect of substances inhibiting free-radical reactions on the
activity of enzymes of the succinic oxidase system. Dokl.
AN SSSR 140 no. 5, 1991, 1200-1201, 1961. (MIRA 15:2)

1. Institut khimicheskoy fiziki AN SSSR. Predstavleno
akademikom V.N.Kondrat'yevym.
(Succinic oxidase)
(Radicals(Chemistry))

S/020/63/148/005/026/029
B144/B186

AUTHORS: Afanas'yev, G. G., Lipchina, L. P., Pelevina, I. I.

TITLE: Sensitization of tumor cells to ionizing irradiation by inhibitors of radical reactions

PERIODICAL: Akademiya nauk SSSR. Doklady, v. 148, no. 5, 1963, 1199-1201

TEXT: To confirm the assumption that inhibitors (In) of radical reactions selectively sensitize tumor cells to gamma irradiation, their effect combined with Co irradiation was studied in the ascitic cells of mice inoculated with Ehrlich cancer. In in-vitro tests propyl gallate (PG) was added 15 min before or after the irradiation. This increased the percentage of aberrations from 9 to 17 %; with 800 r irradiation it was 41.4 %. 800 r irradiation 15 min after PG addition resulted in 97.7 % aberrations, while 70 % were found when PG was added after irradiation. In-vivo tests were conducted by administering 4(N,N-di-(β -hydroxyethyl)-amino-methyl)-1,2-di-tert-butyl phenol (Ambunol) im. or intraperitoneally, 45 min before irradiation with 200, 400 or 800 r. The aberrations were counted in smears taken 24, 48, and 72 hrs after irradiation. In consistency with data published

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for Synkavit, im. administration had no sensibilizing effect. On intra-peritoneal injection of 70 mg/kg In and 400 r irradiation, the number of aberrations was equal after 48 hrs and higher after 72 hrs than after a dose of 800 r without In. The formula $100 - [(100 - P_{In})(100 - P_r)/(100 - P_o)]$ is proposed, where P_o is the number of spontaneous aberrations, P_{In} the number of aberrations under In effect, and P_r the number of radiation-induced aberrations. The theoretical additive numbers of aberrations obtained from this formula were much lower than those found experimentally. Thus it was confirmed that inhibitors of free-radical reactions enhance the radiosensitivity of tumor cells. There are 2 tables.

ASSOCIATION: Institut khimicheskoy fiziki Akademii nauk SSSR (Institute of Chemical Physics of the Academy of Sciences USSR); Gruppa I. A. Kassirskogo pri Akademii meditsinskikh nauk SSSR (I. A. Kassirskiy's Group at the Academy of Medical Sciences USSR)

PRESENTED: July 30, 1962, by N. M. Sisakyan, Academician

SUBMITTED: July 23, 1962

Card 2/2

AFANAS'YEV, G.G.; LIPCHINA, L.P.; PELEVINA, I.I.

Sensibilization of tumoral cells to the action of ionizing radiation caused by the inhibitors of radical reactions. Dokl. AN SSSR 148 no.5:1199-1201 F '63. (MIRA 16:3)

1. Institut khimicheskoy fiziki AN SSSR i Gruppy I.A.Kassirskogo pri AMN SSSR. Predstavleno akademikom N.M.Sisakyanom.
(GAMMA RAYS--PHYSIOLOGICAL EFFECT) (CANCER RESEARCH)
(INHIBITION (CHEMISTRY))

PELEVINA, I.I.; ANDREYEV, V.M.; LIPCHINA, L.P.; EMANUEL', N.M.

Kinetic characteristics of the activity suppression in enzymes of
the succinic oxidase system by the inhibitors of radical processes.
Dokl. AN SSSR 148 no.6:1408-1411 F '63. (MIRA 16:3)

1. Institut khimicheskoy fiziki AN SSSR. 2. Chlen-korrespondent
AN SSSR (for Emanuel').
(Enzymes) (Inhibition (Chemistry))

YELISEYEV, Vladimir Fedorovich; ZHILOV, Ivan Ivanovich; KATAYEV,
Afanasii Filippovich; PELEVINA, Irina Osipovna; SHUGAN, Viktor
Ustinovich, kand. ekon. nauk, dots., red.; BILENKO, L.S., red.
izd-va; SOTNIKOVA, N.F., tekhn. red.

[The economics and planning of Soviet cooperative trade] Ekonomika
i planirovanie sovetskoi kooperativnoi trgovli. [By] V.F. Eliseev
i dr. Moskva, Izd-vo TSentrsoiuz, 1962. 354 p. (MIRA 16:3)
(Cooperative societies)

PELEVINA, M.P., kand.med.nauk

Functional changes in the cardiovascular system in rheumatism
in children.' Vop. okh. mat. i det. 7 no.5:52-57 My '62. (MIRA 15:6)
(RHEUMATIC HEART DISEASES)
(CARDIOVASCULAR SYSTEM)

PELEVINA, M.P.

"Vascular Symptoms as Indicators of Various
Regenerations in the Course of an Infectious
Process," Pediatriya, No. 2, 1948. Central
Sci. Res. Pediatric Inst., Min. Public
Health RSFSR, -c1948-.

KISEL', Aleksandr Andreyevich, prof., zasl.deyatel' nauki [deceased]; KISEL', V.A., sostavitel'-red.; BELYAYEVA, Ye.D., red.; BUBNOVA, M.M., red.; VLASOVA, A.N., red.; GANYUSHINA, Ye.Kh., red.; GROMBAKH, S.M., red.; KONYUS, E.M., red.; KUDRYAVTSEVA, A.I., red.; MAYZEL', I.Ye., red.; MARKUZON, V.D., red.; MOSHKOVSKIY, Sh.D., red.; PELEVINA, M.P., red.; POKHITONOVA, M.P., red.; SAVVATIMSKAYA, N.P., red.; FRIDMAN, R.A., red.; SHIRVINDT, B.G., red.; EDKEL'MAN, Z.I., red.; GAVERLAND, M.I., tekhn.red.

[Selected works. Jubilee edition on the 100th anniversary of his birth, 1859-1959] Izbrannye trudy. Iubileinoe izdanie k 100-letiu so dnia rozhdeniia, 1859-1959 gg. Moskva, Gos.izd-vo med.lit-ry, 1960. 427 p. (MIRA 13:10)

(PEDIATRICS)

PELEVINA, M. V. and KULAKOVA, A. F.

"The Influence of Certain Disinfectant and Chemotherapeutic Compounds on Hydrolytic Enzymes of Bacteria", Voprosy Med. Khimii, Vol. 2, pp 33-46, 1950.

PELEVINA, M. V.

"The Influence of Freezing Temperatures on Microbes in Connection With Desiccation and Preservation of the Dry Cultures Under Nitrogen", (printed in condensed form), Zhur Mikrobiol, Epidemiol i Immunobiol, No. 9, pp 35-36, 1950.

Pelevina, M. V.
USSR/Medicine - Cholera

FD-1643

Card 1/1 : Pub. 148-23/28

Author : Solov'yeva, Ye. M. and Pelevina, M. V.

Title : Increasing the virulence of strains of cholera vibrios

Periodical : Zhur. mikro. epid. i immun. 7, 88-93, Jul 1954

Abstract : By killing guinea pigs with massive doses of cholera vibrios and passing the exudate from their abdominal cavities directly through other guinea pigs without culturing it in an artificial nutrient medium, the virulence of cholera vibrios was increased 5-8 times. The increased virulence was maintained for three months (the period of observation) during successive passages of the vibrios through artificial nutrient media. Vacuum drying procedures prolonged this effect. The experimental procedures employed are fully described. The results of the experiments are presented on five charts. No references are cited. The work of other Soviet scientists in this field is mentioned pointing out the accomplishments of various individuals.

Institution : State Control Institute of Vaccines and Serums imeni L. A. Tarasevich (Dir.-Prof. S. I. Didenko)

Submitted : November 26, 1953

SOLOV'YEVA, Ye.M.; PELEVINA, M.V.

Relation of external environment to modifications of the *Vibrio*
comma O-antigen. Zhur. mikrobiol. epid. i immun. no.10:19-26 O '54.
(MLRA 8:1)

1. Iz Gosudarstvennogo kontrol'nogo instituta vaktsin i syvorotok
imeni L.A.Tarasevicha (dir. S.I.Didenko)

(ANTIGENS AND ANTIBODIES,

cholera O-antigen, eff. of external environment)

(CHOLERA, immunology,

O-antigen, eff. of external environment)

IVANOV, V.I.; PILEVINA, M.V.; GAVRILENKOVA, V.Yu.

Chemical and biological properties of antigens of *Vibrio comma*.
Zhur. mikrobiol., epidem. i immun. 27 no.3:65-69 Mr ' 56.

(MLRA 9:7)

1. Iz Gosudarstvennogo kontrol'nogo instituta syvorotok i vaksain
imeni Tarasevicha.

(VIBRIO COMMA, immunology,
antigens (Rus))

(ANTIGENS AND ANTIBODIES,

Vibrio comma antigens (Rus))

SUSLOVA, V. S.; PHLEVINA, M. V.

Serological properties of diphtheria bacteria. Zhur. mikrobiol.,
epid. i immun. 32 no.8:15-19 Ag '61. (MIRA 15:7)

1. Iz Gosudarstvennogo kontrol'nogo instituta meditsinskikh
biologicheskikh preparatov imeni Tarasevicha.

(CORYNEBACTERIUM DIPHTHERIAE)

EXCERPTA MEDICA Sec 4 Vol 12/1 Med. Micro. Jan 59

56. THE CULTIVATION OF VIBRIO CHOLERAE ON THE CHICK'S EMBRYO
(Russian text) Pelevina M. V. - ZH. MIKROBIOLOG. 1957, 6 (101-104)
Tables 2

At first 10-14 days old chick embryos were infected into the yolk sac, but this caused the death of embryos in 24 hr. Later infection was done into the chorio-allantoic membrane followed by 6-hours incubation at 37-38° C. It was found after 20 passages that in 7 out of 12 passaged strains their virulence for guinea-pigs increased. In the 5 remaining strains similar degree of virulence was obtained after 30 passages. It is concluded that it may be possible to use chick embryos for selection of virulent strains and for raising their virulence.

Kaulen - Moscow

USSR / Microbiology. Microbes Pathogenic for Man F-4
and Animals. Bacteria. Vibrios.

Abs Jour: Ref Zhur-Biol., 1958, No 17, 76750.

Author : Ivanov, V. I.; Pelevina, M. V.; Gavrilenkova, V. Yu.

Inst : Not given.

Title : Chemical and Biological Properties of O-Antigens of
Cholera Vibrios.

Orig Pub: Vopr. med. khimii, 1957, 3, No 4, 269-272.

Abstract: From cholera vibrios of strains No 1488 (Inab) and
No 16 (Ogav), somatic antigens were derived by the
"Buaven" method. By repeated double-triple repre-
cipitation with alcohol, preparations were obtained
that possess antigenic properties but do not give
a positive buret reaction, which testifies to the
easy separation of the protein component from the
common complex. Chromatographic analysis of the

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USSR / Microbiology. Microbes Pathogenic for Man and Animals. Bacteria. Vibrios. F-4

Abs Jour: Ref Zhur-Biol., 1958, No 17, 76748.

Author : Pelevina, M. V.
Inst : Not given.
Title : On Cultivation of Cholera Vibrios in Chicken Embryos.

Orig Pub: Zh. mikrobiol., epidemiol. i immunobiologii, 1957, No 6, 101-104.

Abstract: Twelve weakly-virulent laboratory strains of cholera vibrios were passed into the chorionallantois membrane of 10-14 day chicken embryos. Vibrios were cultivated at 37-38° for 4-6 hours and at room temperature of 18-20 hours. Morphologically-typical vibrios (S-forms of columns) were uniformly cultivated through 20-30 passages. Their virulence

Card 1/2

PELEVINA, M.V.
IVANOV, V.I.; PELEVINA, M.V.; GAVRILENKOVA, V.Yu.

Chemical and biological properties of O-antigens in *Vibrio comma*
[with summary in English]. *Voprosy med. khim.* 3 no.4:269-272 J1-Ag '57.
(MIRA 10:11)

1. Gosudarstvennyy kontrol'nyy institut syvorotok i vaktsin
Ministerstva zdavookhraneniya SSSR, Moskva.

(VIBRIO COMMA, immunology,

O antigens, chem. & biol. properties (Rus))

~~PELUVINA, M.V.~~

Cultivation of *Vibrio comma* in chick embryos. Zhur.mikrobiol.epid.
i immun. 28 no.6:101-104 Je '57. (MIRA 10:13)

1. Iz Gosudarstvennogo kontrol'nogo instituta imeni Tarasevicha.
(VIBRIO COMMA, culture,
chick embryo cultures (Rus))

12111071, 111, 111
GORBUNOVA, A.S.; GHOZIOVA, V.M.; SLEPUSHKINA, V.G.; LOZHKINA, A.N.;
SHAKHALIYEVA, Z.M.; PELEVINA, M.Y.

Nonspecific antihemagglutinins of influenza viruses (inhibitors) in
human and cadaveric plasmas. Vop.virus. 1 no.2:21-27 Mr-Apr '56.
(MLRA 10:1)

1. Institut virusologii imeni D.I.Ivanovskogo AMN SSSR, Byuro
sudebnomeditsinskoj ekspertizy Mosgorzdravotdela i Gosudarstvennyy
kontrol'nyy institut syvorotok i vaktsin, Moskva.

(HEMAGGLUTINATION

antihemagglutinins of influenza viruses in human &
cadaveric plasmas (Rus))

(INFLUENZA VIRUSES, immunology,

same)

(CADAVERS,

same)

KAZANTSEV, F.; PELEVINA, N., konduktor; BAYKOV, R., slesar' depo

If the party says it must be done, Communist Youth League
answers, aye! Zhil.-kom. khoz. 12 no.4:4-5 Ap '62. (MIRA 15:7)

1. Sekretar' partiynogo byuro Upravleniya noginskogo tramvaya
(for Kazantsev).
2. Chlen komiteta Vsesoyuznogo Leninskogo
kommunisticheskogo soyuza molodezhi (for Baykov).
(Communist Youth League)
(Noginsk—Streetcars)

KALIKO, M.A.; PELEVINA, R.S.; PERVUSHINA, M.N.; FEDOTOVA, T.V.

Obtaining higher α -olefins of normal structure by the
catalytic conversion of paraffins. Neftekhimiia 5 no.1:
24-32 Ja-F '65. (MIRA 18:5)

VERKHOVSKIY, A.V., prof.; GLYAVIN, Yu.V., dots.; LUPANOVA, O.K., dots.; MOKEYEV, I.I., dots.; USPENSKAYA, A.N., dots.; PONOMAREV, M.G., dots.; CHARYSHNIKOV, K.A., st. prepod.; ARANOVICH, V.M., assistant; PLOTNIKOV, G.I., assistant; PELEVINA, T.I., red.

[Handbook for the solution of problems on the strength of materials] Posobie k resheniiu zadach po soprotivleniiu materialov. Volgo-Viatskoe knizhnoe izd-vo, 1965. 319 p. (MIRA 19:1)

1. Gorki. Politekhnicheskiy institut. 2. Kafedra "Soprotivleniye materialov" Gor'kovskogo politekhnicheskogo instituta (for all except Pelevina).

GAGAYEVA, Mariya Alekseyevna; TSEYTLIN, A.G., doktor med. nauk
prof., red.; PELEVINA, T.I., red.

[Protection of motherhood and childhood in Gorkiy and
Gorkiy Province, 1860 - 1960] Okhrana materinstva i det-
stva v g.Gor'kom i oblasti (1860-1960). Gor'kii, Volgo-
Viatskoe knizhnoe izd-vo, 1965. 157 p. (MIRA 18:12)

PELEY, Domokos, dr. KONYVES-KOLONICS, Laszlo, dr.

Polyneuro-radiculitis associated with anaplastic carcinoma
without metastases to the nervous system. Ideggyogy. szemle
17 no.4:125-128 Ap'64.

1. Heves megyei Tanacs Korhaza, Ideggyogyaszati osztaly.

*

PELNY, Ivan, dr.

Spontaneous mediastinal emphysema in early childhood. Orv.hetil.
101 no.4:129-130 Ja '60.

1. Baranya Megyei Tanacs Gyermekkorhaza, Pecs.
(PNEUMOMEDIASTINUM in inf. & child.)

PELEYEV, A., kand.tekhn.nauk

Mechanization of the processes of boning and sinewing meat. *Mias.*
ind.SSSR 31 no.2:6-10 '60. (MIRA 13:8)

1. Moskovskiy tekhnologicheskij institut myasnoy i molochnoy
promyshlennosti.
(Packing houses--Equipment and supplies)

PELEYNV, A., kand. tekhn. nauk; NIKITIN, B., inzh.

Effect of the speed of the removal of feathers on their resistance
to removal. Mias. ind. SSSR 29 no.3:51-52 '58. (MIRA 11:6)
(Feathers)

PELEYEV, A., kandidat tekhnicheskikh nauk.

Stretching and rapidity of removal of hides. Mias.ind,SSSR 28
no.4:53-56 '57. (MLRA 10:7)
(Hides and skins) (Slaughtering and slaughterhouses)

~~PELETEV, A.~~ kandidat tekhnicheskikh nauk

Data on the operation of the centrifugal for processing wool by-products.
Mias.ind.SSSR 26 no.2:8-10 '55. (MLRA 8:7)
(Centrifuges) (Wool industry)

PELEYEV, A., kandidat tekhnicheskikh nauk; FALEYEV, R., inzhener

The design of poultry plucking machinery. Mias. ind. SSSR 26
no. 3:18-23 '55. (MLRA 8:9)
(Poultry, Dressing of)

PELEYEV, A., kandidat tekhnicheskikh nauk; DAVYDOV, V., inzhener.

Testing the component knife blades of meat grinders. Mias.ind.
SSSR 25 no.6:35-36 '54. (MIRA 8:1)
(Meat grinders)

FELEYEV, A.

Tekhnologicheskoe Oborudovanie Miaskombinatsiy (Technological Equipment for Meat-Producing Enterprises)

557 p. 3.00

SO: Four Continent Book List, April 1954

PIREYEV, A., kandidat tekhnicheskikh nauk.

Determining the capacity of a motor for a suspended conveyer.

Mias.ind.SSSR 25 no.2:15-21 '54.

(Meat industry)

(MLRA 7:5)

FELEYEV, A., prof.

Basic equation of thermal processing of meat products. Mias.
ind.SSSR 35 no.1:22-25 '64. (MIRA 17:4)

1. Moskovskiy tekhnologicheskii institut myasnoy i molochnoy
promyshlennosti.

PELEYEV, A., prof.

Determining the duration and speed of the thermal processing of meat products.. Thermophysical bases of the process. Mias ind SSSR 34 no. 6:43-50 '63. (MIRA 17:5)

1. Moskovskiy tekhnologicheskii institut myasnoy i molochnoy promyshlennosti.

PELEYEV, Aleksandr Ivanovich, prof.; LAPSHIN, A.A., kand. tekhn.
nauk, dots., retsenzent; AVETIKOV, G.M., kand. tekhn. nauk,
retsenzent; SOKOLOV, A.Ya., doktor tekhn. nauk, retsenzent;
KUZ'MINA, V.S., red.; ZARSHCHIKOVA, L.N., tekhn. red.

[Technological equipment of the enterprises of the meat
industry] Tekhnologicheskoe oborudovanie predpriatii mias-
noi promyshlennosti. Izd.2., perer. i dop. Moskva, Pishcheprom-
izdat. 1963. 685 p. (MIRA 16:12)
(Meat industry--Equipment and supplies)

GERNET, M.M., doktor tekhn.nauk, prof.; DIKIS, M.Ya., doktor tekhn.nauk, prof.; LUK'YANOV, V.V., doktor tekhn.nauk, prof. [deceased]; POPOV, V.I., doktor tekhn.nauk, prof.; SOKOLOV, A.Ya., doktor tekhn.nauk, prof.; SOKOLOV, V.I., doktor tekhn.nauk, prof.; SURKOV, V.D., doktor tekhn.nauk, prof.; BARANOVSKIY, N.V., kand.tekhn.nauk, dots.; BROYDO, B.Ye., kand.tekhn.nauk, dots.; BUZYKIN, N.A., kand.tekhn.nauk, dots.; GOROSHENKO, M.K., kand.tekhn.nauk, dots.; GORTINSKIY, V.V., kand.tekhn.nauk, dots.; GREBENYUK, S.M., kand.tekhn.nauk, dots.; GUS'KOV, K.P., kand.tekhn.nauk, dots.; DEMIDOV, A.R., kand.tekhn.nauk, dots.; ZHISLIN, Ya.M., kand.tekhn.nauk, dots.; KARPIN, Ye.B., kand.tekhn.nauk, dots.; KOSITSYN, I.A., kand.tekhn.nauk, dots. [deceased]; GEYSHTOR, V.S., kand.tekhn.nauk, dots.; MARSHALKIN, G.A., kand.tekhn.nauk, dots.; MOIDAVSKIY, G.Ye., kand.tekhn.nauk, dots.; ODESSKIY, D.A., kand.tekhn.nauk, dots.; PELEYEV, A.I., kand.tekhn.nauk, dots.; RUB, D.M., kand.tekhn.nauk, dots.; SKOBLO, D.I., kand.tekhn.nauk, dots.; SHUVALOV, V.N., kand.tekhn.nauk, dots.; KHMEL'NITSKAYA, A.Z., red.; SOKOLOVA, I.A., tekhn. red.

[Principles of the design and construction of machinery and apparatus for the food industries] Osnovy rascheta i konstruirovaniya mashin i apparatov pishchevykh proizvodstv. Moskva, Pishchepromizdat, 1960. 741 p.

(MIRA 14:12)

(Food industry—Equipment and supplies)

PELEYEV, Aleksandr Ivanovich; ROBER, David Aronovich; BRAZHNIKOV,
Aleksandr Mikhaylovich; VIGDORCHIK, D.Ya., retsenzent;
IZATULOV, R.A., retsenzent; TSIPERSON, A.L., red.

[Gas-using equipment of meat industry enterprises] Gazo-
ispol'zuiushchee oborudovanie predpriatii miasnoi pro-
myshlennosti. Moskva, Pishchevaia promyshlennost', 1965.
155 p. (MIRA 18:10)

DERGUNOVA, Aleksandra Aleksandrovna; PELEYEV, A.I., prof.,
retsenzent; MANERBERGER, A.A., prof., spets. red.
KORBUT, L.V., red.

[Processing of guts] Obrabotka kishok. Moskva, Pishche-
vaia promyshlennost', 1965. 185 p. (MIRA 18:10)

GORBATOV, Vasilii Matveyevich; PALEYEV, Georgiy Anatol'yevich; ~~PELEYEV~~,
A.I., inzh.-mekhanik, kand.tekhn.nauk, retsenzent, red.; GEVORGYAN,
B.O., inzh.-mekhanik, retsenzent, red.; MOROZOVA, I.I., red.;
KISINA, Ya.I., tekhn.red.

[Assembling, operation, and repair of packing-house equipment]
Montazh, ekspluatatsiya i remont oborudovaniya miasokombinatov.
Moskva, Pishchepromizdat, 1959. 720 p. (MIRA 13:4)
(Packing houses--Equipment and supplies)

PEL'YEV, A.I., kandidat tekhnicheskikh nauk; SURKOV, V.D., professor,
doktor tekhnicheskikh nauk, redaktor; SEMENOVA, N.L., redaktor;
ANUFRIYEV, V.V., inzhener, rețsenzent; SHUVALOV, V.N., kandidat
SHUVALOV, V.N., kandidat tekhnicheskikh nauk; GOTLIB, R.M., tekhnicheskiiy redaktor

[Operation of vacuum pumps in the meat and milk industries] Eks-
pluatatsiia vakuum-nasosov v miasnoi i molochnoi promyshlennosti.
Moskva, Pishchepromizdat, 1955. 104 p. (MLRA 9:1)
(Vacuum-pumps)

L 44457-66

ACC NR: AP6023255

(A)

SOURCE CODE: UR/0322/66/000/002/0082/0085

20

B

AUTHORS: Klimenko, M. N.; Peleyev, A. I.

ORG: Moscow Technological Institute for the Meat and Dairy Industry, Department of Machines and Equipment for Meat Combines (Moskovskiy tekhnologicheskii institut myasnoy i molochnoy promyshlennosti, Kafedra mashin i oborudovaniya myasokombinatov); Ukrainian Scientific Research Institute for the Meat and Dairy Industry, Laboratory for the Technology of the Primary Processing of Cattle (Ukrainskiy nauchno-issledovatel'skiy institut myasnoy i molochnoy promyshlennosti, Laboratoriya tekhnologii pervichnoy pererabotki skota)

TITLE: Investigation of structural and mechanical properties of meat

22

SOURCE: IVUZ. Pishchevaya tekhnologiya, no. 2, 1966, 82-85

TOPIC TAGS: food preservation, food technology, protein

ABSTRACT: The deformational behavior of meat was studied using the deformometer of the Leningrad Meat Plant and Keppler's consistometer. Specimens of 1-cc size were prepared from the longest muscle of beef and were stored at 2-30 for 30 hours. They were instantly deformed by a magnitude ϵ by a constant pressure P, as shown in Fig. 1. When subjected to small loads for periods brief in comparison with the relaxation period, the specimens behaved as elastic materials. During instantaneous stresses of up to $0.12 \times 10^5 \text{ n/m}^2$ at 10-15C, the specimens exhibit an elasticity

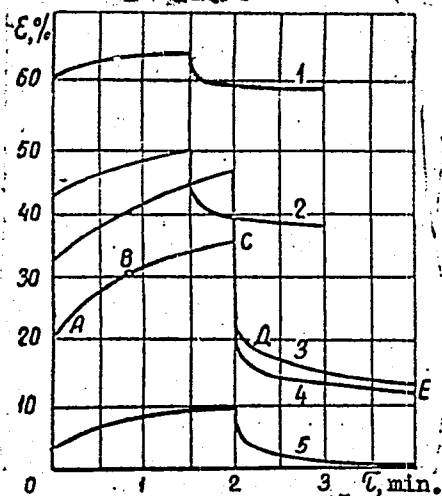
UDC: 637.514

Card 1/2

I 44457-66

ACC NR: AP6023255

Fig. 1. Values of ε , %, at $P = 0.5 \times 10^5$: 1 - across fibers; 2 - along fibers; at $P = 0.05 \times 10^5$: 3 - across fibers; 4 - along fibers; 5 - at $P = 0.01 \times 10^5$ n/m² (along).



modulus of 0.264×10^4 n/m². At -12 to 18°C this modulus changes according to the equation

$$E = 1,074e^{-0.283t} \cdot 10^5 \text{ n/m}^2.$$

Orig. art. has: 4 figures and 4 equations.

SUB CODE: 06/ SUBM DATE: 22Mar65/ ORIG REF: 004/ OTH REF: 001

Card 2/2

Polczyński, A.
Polczyński, A. A generalisation of Stone's theorem on approximation. Bull. Acad. Polon. Sci. Cl. III. 3 (1957), 105-107, X. (Russian summary).

1-FW

The author announces a generalization of the Stone-Weierstrass theorem. The functions are on a compact Hausdorff space with values in a linear space whose topology is defined by a countable family of pseudo-norms, and polynomials are replaced by multilinear operations. Proofs are to appear in Studia Math.

M. E. Shanks (Princeton, N.J.).

1/1

1ST AND 2ND ORDERS										PROCESS AND PROPERTIES INDEX										3RD AND 4TH ORDERS									
Preheating the Hearth of a Cupola. S. Polzanski. (Przeglad Ociepleniowa, 1951, vol. 1, Mar., pp. 84-87). (TR Polish). The iron from the first two or three tappings from a cupola often runs cold, and cannot be used for complicated castings. This can be prevented by the introduction of blowholes near the bottom of the cupola, thus obtaining good preheating of the hearth with burning coke and combustion gases. After preheating the blowholes are closed with moulding sand. A diagram and the method of blowing in a modified cupola are given.—V. G.																													
ASB-11-A METALLURGICAL LITERATURE CLASSIFICATION																													
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SECTION #1										SECTION #9 ONLY ONE										SECTION #12 ONLY ONE									

Distr: 4E3d

7 Spectrum of Chromium-51. L. Hambe and L. Perlberg.
Lobnyy Prib. Zondiro Akad. Nauk 1957, No. 5, 121-3 (in
 Russian).—By employing a scintillation γ -spectrometer
 with an NaI (Tl) crystal, a new weak γ -line was discovered
 with the energy 630 ± 10 e. kv. The spectrometer was cali-
 brated with the known lines of Cr^{51} and Cs^{137} . The relative
 half-width was 10% for the 681 e. kv. line of Cs^{137} . The in-
 tensity ratio was $1:2.7 \times 10^{-3}$ for the Cr^{51} γ -lines of 323
 and 630 e. kv. The results of Bisi, *et al.* (C.A. 50, 6200c)
 were confirmed.

A. Krieger

11

5

Cast-Iron Test Bars. S. Polzarski. (Przeglad Chemiczny, 1951, vol. 1, Jan., pp. 70-71) [in Polish]. The correct methods of taking control samples for strength tests are given. The differences between test bars cast separately and as part of the casting, and the effect of position of specimen in the latter case, are discussed. - V. G.

ASB-51A METALLURGICAL LITERATURE CLASSIFICATION

438

Cast-iron test bars. S. Polonsky (Prorglad Odiron., 1951, 1.
8-11; J. Iron Steel Inst., 1951, 186, 403).—Correct methods for
taking control samples for strength tests are described. The
differences between test bars cast separately and as part of the
casting, and the effect of position of the specimen in the latter case,
are discussed. R. H. CLARK.

PELGONEN, I.M.

Effect of trace elements on the quality of apple fruit.
Uch.zap.Petrozav.gos.un. 11 no.4:44-46 '63.

(MIRA 19:1)

1. Botanicheskiy sad Petrozavodskogo gosudarstvennogo
universiteta.

PELGONEN, I.M.

Effect of trace elements on some physiological processes and
yield in the apple. Uch. zap. Petrozav. gos. un. 12 no.3:64-71
'64. (MIRA 19:1)

1. Botanicheskiy sad Petrozavodskogo gosudarstvennogo univer-
siteta imeni O.V. Kuusinen.

PELGONEN, I.M.

Biology of different apple varieties in Karelia. Trudy Kar. fil.
AN SSSR no.28:142-150 '60. (MIRA 14:9)
(Karelia--Apple--Varieties)

PELHAN, Ciril, doc. dr. inz.

The spot where potassium begins in gray casting. Livar vest
11 no. 2: 33-41 '64.

1. Editor and Member of the Board of Editors, "Livariski
vestnik."

PELHAI, CIRIL

YUGO •

The differential thermal analysis of clays. Ciril Pelhal (Fac. Mining and Met., Ljubljana, Yugoslavia). *Russk. Met. Zhornik* 1934, 167-70 (German summary, 171).—The mineralogical compn. of clay deposits has been studied by the method of differential thermal analysis. The form of the differential thermal curve and the positions of the max. and min. (corresponding to the onset of exo- and endothermic reactions) allow one to sep. the clays into the kaolinite, montmorillonite, illite, and sericite groups. The results are given for the analysis of a series of clay deposits. This method does not give good results for a sample contg. several components. J. Roster Leach

PELMAN, C.

Differential thermic analysis of clays. p. 157. (RODARSKO-METALURGI
ZBORNIK, Vol. 7, No. 2, 1954. Ljubljana, Yugoslavia)

SO: Monthly List of East European Accessions, (EEAL), LC, Vol. 4, No. 4,
Apr 1955, Uncl.

Pelhan, Ciril

YUGOSLAVIA/Chemical Technology. Chemical Products and Their Application. J-12
Glass. Ceramics. Building Materials.

Abs Jour: Referat Zh.-Kh., No 8, 1957, 27606

Author : Ciril Pelhan.

Inst : _____

Title : Bentonites of Yugoslavia.

Orig Pub: Nova proizvodnja, 1956, No 3-4, 198-207.

Abstract: A great many occurrences of bentonite clay were discovered.
This clay can be used in the industry in its natural state.
The reserve are so great that the export of bentonites is
possible. This clay consists only of montmorillonite and
only seldom contains admixtures of loam and quartz sand.

Card : 1/1

-5-

PELHAN, Ciril
YUGO .

11834° Clay as a Binder in Synthetic Molding Mixtures.
Glinas kot vezivo v sintetičnih litarah in metalicah. (Slo-
venian) Ciril Pelhan. *Industrijsko-metalurški zbornik*, 1954, nos.
6-4, p. 250-255.

Use of semisynthetic and synthetic sands, and various binders,
mineralogical composition and physical properties of clays.
Tables, diagrams. 6 ref.

11834°
Jen

PELHAN, C.

Kinds of casting systems. p. 572.
(Tehnika, Vol. 12, no. 4, 1957. Beograd, Yugoslavia)

SO: Monthly List of East European Accessions. (EEAL) LC. Vol. 6, No. 7,
July 1957. Uncl.

FELHAN C.

FELHAN, C. Proposal of standards for foundry sand. p. 1

No. 1, Jan. 1955
STANDARDIZACIJA
TECHNOLOGY
Beograd

So: MONTHLY LIST OF EAST EUROPEAN ACCESSIONS, (FEAL), Vol. 4, No. 9,
Sept. 1955

PELHAN, C.

"Layers of casting sand in the outskirts of Store, Slovenia." p. 223. (Nova Proizvodnja. Vol. 4, no. 3/4, Sept. 1953. Ljubljana.)

SO: Monthly List of East European Accessions. Vol. 3, no. 3. Library of Congress. March 1954.
Uncl.

PELHAN, C.

"Deposits of Foundry Sand in Slovenia." p. 8. (Nova Proizvodnja, Vol. 4, no. 1, Apr., 1953, Ljubljana,)

East European Vol. 2, No. 9,
SO: Monthly List of ~~Accessions~~ Accessions, Library of Congress, September 1953, Uncl.

PELHAN, E.

Bentonites in Slovenia. Čiril Felžbah, *Nova Prosvetnaja*
No. 3, 1961, 1962, 1963, 1964. — The bentonite (I) deposits
in Slovenia were discovered recently. Analyses are pre-
sented and also differential thermal analysis curves of 5
different samples of Slovene I. All these analyses show that
these I consist of montmorillonite almost exclusively, with
occasionally some admixed quartz. The exchangeable
cations vary from 70 to 103 meq. Ca^{++} and Na^{+} are the
predominant cations. The plasticity of these I are all
high, the plasticity varies between 60 and 120. These I have
already been used successfully in Yugoslavia in the foundry
industry and for the manufacture of paper.

PELHAN, Ciril, doc. dr. inz.

Surface tension of Yugoslav castings. Livar vest 10 no. 2/3:
40-47 '63.

1. Clan Uredniskega odbora in urednik, "Livarski vestnik".

FBII, J.

Construction errors in water-insulating works. p. 522.

NAGYAR EFITOIPAR. (Ipitoipari Tudományos Egyesület) Budapest, Hungary.
Vol. 8, no. 10, Oct. 1959.

Monthly List of East European Accession (EEAI) LC, Vol. 9, no. 1, Jan. 1960

Uncl.

PELI, J

"Experiences with high-frequency hardening in domestic machine production" p. 262,
(GEP, Vol. 5, no. 6, July 1953, Budapest, Hungary)

SO: Monthly List of East European Accessions, L.C., Vol. 2, No. 11, Nov. 1953, Uncl.

PELI, Janos; NEMETH, Lajos

Application of induction hardening in gear manufacture, II, Csp 13
no.12:460-464 D '61.

1. Csepeli Szerszámgyár(for Peli). 2. Jarműfejlesztési Intézet
(for Nemeth).

PELI, Jozsef

Insulation and roofing in West Germany. Magyar ipar 12 no.11/12:
554-560 '63.

FELI, Jozsef

Correct design of structures perforating water-pressure
insulations. Magy ep ipar 12 no.4:177-179 '63.

PELIKH, M.A.; ARZUMANOV, Sh. M.

Irrigation Farming

Methods of irrigating vineyards. Vin. SSSR 12 no. 8, 1952.

9. Monthly List of Russian Accessions, Library of Congress, December 1958, 2 Unclassified.

APPROVED FOR RELEASE: 06/15/2000

CIA-RDP86-00513R001239910006-0"

AIMASY, Ferenc; PELC, Antal, dr.; VARGA, Laszlo

Device for feeding continuously changing quantities of liquid.
Elelm ipar 18 no.8/9:269-271 Ag-S '64.

1. Research Institute of the Fermentation Industry, Budapest.

SECHEL, Vasile, ing.; CAZACU, Iulian; MORARU, Nicolae, ing.; ACHIM, Stelian, ing.; MIHAI, Dumitru, ing.; ANDREI, I.; CURPAN, V.; BOT, Iosif; STROHLI, Ignat; LUPSE, O., ing.; PELICALA, Gh., ing.; TEODORESCU, Dumitru, ing.

Modern technological proceedings in mechanical engineering.
Probleme econ 18 no.1:154-163 Ja '65.

1. Technical Director, "Tractorul" Plant, Brasov (for Sechel).
2. Chief Planning Engineer, "Tractorul" Plant, Brasov (for Cazacu).
3. Technical Director, "Independenta" Plant, Sibiu (for Moraru).
4. Chief Technologist, "Independenta" Plant, Sibiu (for Achim).
5. Director, Colibasi Plant for Automobile Parts (for Mihai).
6. Director, Metallurgic Plant, Bacau (for Andrei).
7. Chief Engineer, Metallurgic Plant, Bacau (for Curpan).
8. Director, "Unirea" Metallurgic Plant, Cluj (for Bot).
9. Chief Engineer, "Unirea" Metallurgic Plant, Cluj (for Strohli).
10. Chief Metallurgist, "Unirea" Metallurgic Plant, Cluj (for Lupse).
11. Director, "Feroemail" Plant Technical and Sanitary Products and Installations, Ploiesti (for Pelicala).
12. Head of Technical Services, "Feroemail" Plant for Technical and Sanitary Products and Installations, Ploiesti (for Teodorescu).

PELICARIC, J.

Co-au. Okljesa, B.

Goals

CIA-RDP86-00513R001239910006-0"

101 AND 102 ORDERS										103 AND 104 ORDERS									
SUBJECTS AND PROPERTIES INDEX																			
35 2-1 Solubility of sulphur in polychlorides of benzene and other substances with Gratchik of S. p. 200-225; L. S. Tarkov and N. D. Tarkov (Ukrainian Chem. J., 1955, 3, 557-561). The solubility of sulphur in benzene (S. p. 200-225) increases steadily with rise of temperature from 0.25% at 30° to 15% at 100°. The solubility of sulphur in benzene containing 25% of a technical mixture of o- and p-dichlorobenzene is increased by 49% with 60% of dichlorobenzene by 120-140% and with 75% by 300%. The solubility of sulphur in dichlorobenzene alone rises from 12% at 30° to 85% at 100°, above which temperature complete solubility in all proportions exists. In benzene-dichlorobenzene mixtures the solutions break up into two layers at 100°, the lower layer consisting of a saturated solution of sulphur in dichlorobenzene; above this the two layers are completely miscible. R. TRUCKLOWSEN.										COMMON VARIABLES MORE									
ASS-ELA METALLURGICAL LITERATURE CLASSIFICATION																			
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CZECHOSLOVAKIA

VECEREK, B.; KRAML, J.; PELICOVA, H.; STEPAN, J.; CHMELAR, M.;
STIPEK, S.

1. Institute for Medical and Forensic Chemistry, Faculty
of General Medicine, Karlov University, Prague - (for all).

Prague, Collection of Czechoslovak Chemical Communications,
No 11, November 1965, pp 3964-3968.

"Phosphatases. Part 2: Changes in the composition of human
intestinal and kidney alkaline phosphatase during purifi-
cation."

(6)

KRAML, Jiri; PROKES, Jaroslav; KACL, Karel; PELICHOVA, Hana; FOIT, Richard, SIEBEROVA, Ruzena; KOLAR, Miroslav

Use of labelled insulin for detection of insulin antibodies. I.
Detection of insulin antibodies with electrophoresis in agar.
Vnitřní lek. II no.1:1-17 Ja '65

1. I. ustav pro chemii lékařskou a soudní FVL UK (prednosta prof. dr. Karel Kacel, DrSc.); II. vnitřní klinika FDL UK Fakultní nemocnice Pod Petrinem (prednosta: prof. dr. Richard Foit, DrSc.) a Biofyzikální ustav FVL UK (prednosta - doc. dr. Zdenek Dienstbier, DrSc.).

PELIKAN, V.; NADVORNIK, P.

Theory of graphs and pathophysiological interpretation of
mental disorders. Aktiv. nerv. sup. (Praha) 7 no.2:193 '65

1. Psychiatric and Neurosurgical Clinic, Medical Faculty Charles
University, Hradec Kralove. 2. V.Pelikan's address: Hradec
Kralove, fakultni nemocnice.

PELICOVA, Hana; KRAML, J.; CHMELAR, M.; VECEREK, B.

Precipitating and binding antibodies against human intestinal alkaline phosphatase. Folia biol. (Praha) 11 no.3:208-214 '65

1. First Department of Medical and Forensic Chemistry, Faculty of General Medicine, Charles University, Prague.

KRAML, J.; PROKES, J.; PELICHOVA, Hana; CHMELAR, M.; KACL, K.

The immunoelectrophoretic assay of insulin- I^{125} interaction
with human α_2 -macroglobulin in vitro. Folia microbiol.
(Praha) 9 no.2:121-124 Mar 1964.

1. 1st Department of Medical and Forensic Chemistry, Charles
University, Prague.

*

PELCZAR, A. (Krakow)

On a modification of the method of Euler polygons for the ordinary differential equation. Annales Pol math 15 no.2:195-202 '64

PELCHARSKI, Tadeusz

Deep processing of natural gas in order to obtain gasoline.
Wlad nafa 20 no.1:88-90 10-11

PELCZYNSKI, A. (Warsaw)

On simultaneous extension of continuous functions. Stud math
24 no.3:285-304 '64

PELIHAN, Ciril, prof. dr inz.

Solidification and crystallization of gray iron. *Livarsvo* 11
no.57/58:151-158 S-N '64.

Influence of sulfur on the form of graphite in gray iron. *Ibid.*:
159-165

1. Metallurgical Faculty, Ljubljana. Submitted 1961.

POP, Gh.; PEIJGRAD, D.

Variation of the meteorologic elements at Gluj-Someseni during
the total sun eclipse on February 15, 1961. Studia Univ B-B S.
Geol-Geog 8 no.2:99-105 '63

PELIGRAD, Nicolae, ing., laureat al Premiului de Stat

Some theoretical and experimental problems on turboclutches.
Constr mas 16 no. 1:35-41 Ja '64.

MUNTEANU, Corneliu (Bucuresti); PESTROIU, Daniel (Tirgu Jiu); PIRSAN, Liviu (Bucuresti); VOICULESCU, Dan (Bucuresti); ALESCU, I. (Bucuresti); PELTEANU, Ioan (Bucuresti); STANCU, I.M. (Bucuresti); CHITESCU, Ion (Bucuresti); STANESCU, Ilie (Sibiu); IONESCU, Traian (Braila); KACSO, F. (Cluj); MANESCU, L. (Rimnicu Vilcea); IONESCU-TIU, C.; FOCSENEANU, M.I.; POPA, Eugen (Iasi); MIHALCA, Dan (Bucuresti); PELIGRAD, Nicolae, prof. (Pitesti); BUNA, I. Dorin (Carnates); STANCU, Ion M. (Bucuresti).

Proposed problems. Gaz. mat B 16 no.2:86-91 F '65.

HOLEBAN, Henri, ing.; PELIGRAD, Nicolae, ing.

Utilization of hydraulic turbotransmissions in rail
motorcars and diesel engines. Metalurgia constr mas
13 no. 3: 200-211 Mr '61.

PELIGRAD, Nicolae, ing.; ATANASIU, Valentin, ing.

Contributions on the driving of rotary tables in drilling installations through hydrodynamic transmissions. Metalurgia constr mas 14 no.7:619-635 JI '62.

1. Institutul de studii, cercetari si proiectari tehnologice pentru industria constructoare de masini, utilaje si industria electrotehnica.

L 31741-66 T WE

ACC NR: AP6021168

SOURCE CODE: RU/0007/65/016/03-/0172/0178

AUTHOR: Peligrad, N. (Engineer)

20
B

ORG: none

TITLE: Hydraulic torque converters with adjustable blades used in oil equipment

SOURCE: Petrol si gaze, v. 16, no. 3-4, 1965, 172-178

TOPIC TAGS: well drilling machinery, petroleum industry equipment, hydraulic equipment, torque converter/CHC 650-2 torque converter

ABSTRACT: A discussion of the use of hydraulic torque converters with adjustable blades in drilling as well as in the servicing and over-haul of equipment. The design and advantages of hydraulic converters are described, and their production in Rumania is discussed. The converters of this type made in Rumania to date are modifications of the CHC 650-2 converter. Orig. art. has: 14 figures. [Based on author's Eng. abstract] [JPRS]

SUB CODE: 13 / SUBM DATE: none / ORIG REF: 005 / SOV REF: 001

LS

Card 1/1

PELIGRAD, Nicolae, ing.; ATANASIU, Valentin, ing.

The drive of mud pumps in drilling equipment by means of hydrodynamic transmissions. Metalurgia constr mas 14 no.8:711-724 Ag '62.

1. Institutul de studii, cercetari si proiectari tehnologice pentru industria constructoare de masini, utilaje si industria electrotehnica.

PELIKAHN, Hilde

(3)

Gastric proteinases during infancy and childhood. W. Heck and Hilde Pelikahn (Univ. Göttingen, Ger.). *Z. Kinderheilk.* 74, 30-49 (1953).—The pepsin (I) and cathepsin (II) activity of the gastric juice is expressed as γ of tyrosine N decrease/min./cc. gastric juice. The value for prematures is 10, newborns 40, infants (up to 6 months) 65, infants (6-12 months) 125, preschool children 210, and school children 240. The difference in the individual values also increases with age. Small amts. of I and II are found in the early human milk but not in the colostrum. Infants with respiratory infections showed a slightly lowered I and II activity. In general, the I activity is lost more during illness than the II activity. D. L. Noether.

PELIKAN, A.

[illegible]

PELIKAN, A.

BASALT -- RAW MATERIAL FOR GLASS. A. Pelikan and I. Doubrava. Sklarne Rozhledy, 25 [3] 37-40 (1949). --Basalt melts into a glass which is believed to be usable for certain technical purposes. A typical analysis is SiO_2 43.60, TiO_2 3.52, Al_2O_3 17.47, Fe_2O_3 4.05, FeO 4.60, MnO 0.30, CaO 12.79, MgO 8.42, Na_2O 2.70, K_2O 0.98, P_2O_5 0.96, CO_2 0.56, and H_2O 1.36%. The glass is black, and its grinding hardness is greater than that of normal glass; its scratch hardness is 8 to 9 on Mohs' scale. From 0 to 100 its expansion is 67.4×10^{-7} , and from 100 to 500, 80.6 $\times 10^{-7}$. It is in the first hydrolytic class, 8.4 mg. in the German system. It has excellent durability, much better than that of colored opaque structural glass of the Continent. The specific weight is 2.859 to 2.896. 2 photomicrographs. N.J.K.

ASH-S.A. METALLURGICAL LITERATURE CLASSIFICATION